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An Inaugural Dissertation
on
Dysentery:

Submitted to the examination of
Rector

The Trustees and Medical Professors of
The University of Pennsylvania
For the Degree of Doctor of Medicine

On the day of A.D. 1811

By John J. Lansing, A. B.
of Albany, New York.

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Dr. John F. Manning, A.B.

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Upon a subject which has employed the pens of the ablest and most enlightened authors from Hippocrates down to the present day, it cannot be expected that a young man just issuing from his student-ship, and inexperienced in the phenomena of diseases, should throw much new light. The principle merit of this essay (if any should be attached to it) shall consist in its bringing into a concise view the knowledge the author has derived from the writings and experience of others.

The dysentery is a disease which has made its appearance even in the remote ages of antiquity; numerous have been the failures of the best concerted plans from its influence, and the different countries

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of Europe still lament the loss of her brave
sons who have fallen victims to this dis-
tructive disease. Sydenham and others
have considered it as a Remittent or
intermittent fever turned upon the bowels.

This may be infered 1st From its appear-
ing in the same season of the year at which
these fevers usually appear. 2^d From its suc-
ceeding similar circumstances in the at-
mosphere to those which ^{cause} ~~produce~~ these fevers.

3^d From its being accompanied with the
same symptoms which usually charac-
terize those fevers. 4th From its alternating with
them, and its being Epidemick at the same
time and place with them.

The word dysentery is derived from
the Greek word δυσεντερια, which is derived

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from Δυσ with difficulty and εντερα the
intestines, importing a difficulty or disor-
derment in the functions of those organs. By
it Hippocrates signified an ulceration of
the intestines and all bloody discharges from
them. Galen followed him in his error.

In the time of Celsus the word *Formina* was
used to signify an ulceration of the intestines
accompanied with tenesmus, griping, and
mucous, and bloody stools; he then adds that
this was the dysentery of the Greeks. So
that Celsus was the first who gave any
any thing like a precise character of this
disease. It generally makes its appearance
in the last summer or first autumnal
months; though Sir John Pringle ^{says} it may
appear at an earlier period, but accom-

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=panied with much milder symptoms than
those which attend the dysenteries which
come on at a later period. It commonly fol-
=lows wet and cold weather succeeding to
great heat. Its promonitory signs are, 1st
Flatulency, supposed to be derived from
✓ the Putrifaction of the blood, mucus, and other
substances in the *prima via*. 2^d Pains in the
✓ back and loins. 3^d Mucilaginous stools. 4th It
sometimes comes on with the symptoms
of diarrhea. 5th It is most generally accom-
=panied with symptoms of the forming
stage of fevers. When formed it is known
by the following symptoms. 1st Gripes.
2^d Stools, these are different and proceed
from different causes. 1st Blood and mucus

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The blood is supposed to be derived from a rupture of the vessels of the intestines. Sometimes it is in small quantities and is streaked on the mucus: it is then said to come from the lower intestines; but when it appears more equally diffused, it is said to be derived from the upper intestines. 2^d Blood and faces.

3^d Faces, blood and mucus. 4th Scibella, supposed to be derived from the Colon after having been confined in its cells by the constriction in those parts. 5th A membrane formed by the coagulable lymph, ^{inflammation} and supposed to be the consequence of ^{inflammation} from the resemblance it bears to the membrane found in the Trachia after death from Cynanche Trachealis.

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6th The serum of the blood. Sir John Pringle
supposes this to be derived from the up-
per part of the intestines. 7th Balls like
lumps of cheese, which Doct^r Hunter sup-
poses to be the first discharge from the
tubercles which are found in the intes-
tines after death. 8th Worms. Doct^r Syden-
ham describes a dysentery unaccompa-
nied with stools, but attended with se-
vere gripings and considerable fever.
In this case, "It is probable that the force of"
"the disease in the bowels first prostrates"
"their action so as to prevent the discharge"
"of any of the contents of the intestines, a"
"greatly to the analogy of several other"
"diseases. Perhaps this form of intesti-

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"disease may be called a dry dysentery."

Some authors have described a dysentery in which the patient is immediately seized with a desire to go to stool upon swallowing any thing whether solid or liquid, accompanied with a sensation as if what was swallowed was running through the bowels. This is to be attributed to the great irritability of the intestines, by which an impression made upon the stomach is propagated throughout the whole alimentary canal. This affords a striking example of the great sympathy which prevails between ~~the~~ the stomach and the intestines down to the rectum. Some authors describe a *prociencia ani* and a *stranguary*

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as symptoms of this disease. The first is the consequence of the violent straining; the 2^d arises from the inflammation, spreading from the rectum to the neck of the bladder.

As the morbid appearances of the bowels after death tend greatly to improve our knowledge of this disease, I shall avail myself of the information I have been able to obtain from books on this subject. Upon a first view, says Dr Hunter, the bowels appear irregularly contracted, particularly the colon: and they appear redder than is natural at the contracted part. Upon a nearer inspection, after having cut out part of the intestine, and upon examining the inner coat, the

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appearance of disease becomes more obvious. There
are then to be seen tubercles like pustules
sometimes in a greater and some times in
a less number. They appear different in their
different stages. Their progress appears to be
nearly as follows: there is first a small round
tubercle of a reddish colour, and not more
than one tenth of an inch in diameter: it
then increases and becomes paler as it be-
comes larger. In this stage there appears
a small crack on the top with a slight de-
pression which gradually increases. Upon ex-
amination it is found to contain a cheese like
substance, and is seated between the muscu-
lar and villous coats of the intestine. As
the opening becomes larger the base becomes
rough, and discharges a matter which is fre-
quently tinged with blood. They sometimes
appear single though frequently in clusters.

Sometimes the intestines show
no marks of disease. This is in consequence of
what has been called the dry dysentery.

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Sometimes it has been said that the intestines exhibit marks of gangrene. Dr. Hanter says that in all the dissections he made he did not discover this appearance in one. He further remarks that the appearance which arises from extravasation of blood has often been mistaken for gangrene.

Doctor Clark mentions that in many cases the liver and spleen were diseased. The inner coat of the intestines has been found abraded.

Diagnosis. After having a minute and faithful history of the disease as I have collected it from the most approved authors on the subject, it will become necessary to mention some characteristic marks by which this disease may be known from others with which it may be confounded. The dysentery is not likely to be mistaken for any disease except it be Diarrhoea. From this it may be distinguished by its being accompanied with small but frequent stools of a slimy and pthy mat.

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1st By the tenesmus and griping which accom-
pany it. 2^d By the bloody stools, though these are
not always present. 4th By the fever which ac-
+ companies it. 5th The dysentery is contagious
while the diarrhoea is not. These marks serve
sufficiently to distinguish it from all other
diseases.

Remote Cause. By the remote cause of
dysentery I mean any thing which acting on
any part of the body produces a debility or predis-
position to disease in the intestines. Doctor
Sydenham seems to refer the cause of dysentery
altogether to the air and calls it an Epidem-
✓ -ic constitution of the atmosphere. Hippocra-
-tes seems to derive it from the state of the weather.
✓ -is during the winter and spring preceding
the summer in which the dysentery prevails.
Thus, says he, After an unusually dry winter
with northerly winds, if a rainy spring succeed
with southerly winds, dysenteries will prevail
in the summer.

The causes to which dysentery is due

is most commonly attributed in modern times an
1st great heat preceding cold and moist weather
this acts by stopping perspiration, and giving
the acid fluids a contripetal direction.
2^d The want of vegetable aliment, and also the
want of a moderate quantity of fermented liquor.
3^d want of cleanliness. 4th the use of putrid meat
and water. Doctor Hunter mentions that in the
island of Jamaica the water becomes quite
putrid before it is drank; owing to its being kept
in cisterns in which millions of insects breed. we
can easily imagine that such water when drank
may induce debility of the intestines to which it
is immediately applied. 5th Hoine and Scler mi-
-asmata. Any of the causes already mentioned acting
upon the system may produce the predisposing
cause or debility in the intestines.

The system being now primed for disease,
the application of any of the Exciting Causes,
may produce dysentery. But, it may be asked, why
should the exciting cause produce dysentery
in preference to a more general disease, as

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Intermittent or Remittent fever; Since both are said to be derived from the same causes? he reply it may be remarked that the exciting causes often do induce these fevers; and that when ~~they~~ produce dysentery it is to be referred to a law in the animal Economy, viz: That diseases attack the weakest parts, as is the case ^{in Gouty} which most frequently attacks the great toe; and also in creating an artificial weak part, as has been done in mania by frequent purges, the excitement becomes translated from the brain to the intestines and creates a diarrhoea.

The most general ~~exciting~~ causes of this disease are a repetition of the application of any of the remote causes already ^{mentioned} also Rheum and Icterus miasmata, Intoxication, distress of mind. It has been brought on by purges. The smell of putrid meat and putrid blood have induced it.

Cure. The dysentery sometimes appears in so mild a form that a gentle cathartic with an opiate after its operation will put an immediate stop to its progress.

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But in the majority of cases the cure is more tedious and difficult, and is to be regulated by the season of the year, the state of the system, and the symptoms present.

Blood letting is a safe and necessary remedy in many cases of dysentery. It removes the phlogistic diathesis and reduces the pain and pulse in a shorter time than any of the other antiphlogistic measures. The use of it must be determined by the pulse and constitution of the patient, and by the nature of the prevailing Epidemic. Doctor Rush has bled from one to twenty two times in a dysentery which prevailed in this city at the same time with yellow fever -

Cathartics. These are the remedies, upon which the greatest reliance is to be placed, in this disease.

Next to blood letting they are the most powerful antiphlogistics, and they afford immediate ^{relief} from the griping and other symptoms. As to the choice of purges there seems to be nothing specific in the action of them. It is only necessary

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that they operate easily, speedily and effectually. Those which have been proposed are castor oil, sweet oil, fresh butter, milk, fresh butter, vinegar and molasses, the Super Tartrite of Potash, and Sella-phur when the disease seems seated in the lower bowels. The sulphate of Soda in combination with manna has of late been thought highly of by the writers on dysentery, and from its possessing the qualities I have above mentioned I have no doubt of its efficacy. Rheubarb and calomel having been used in this disease, and seem to have been the favorite of Sir John Pringle: he supposed that the addition of calomel rendered the operation of the Rheubarb more mild.

Vomits have of late years fallen into disuse as antidiysenteric medicines. Though Doctor Mosely placed his principal reliance upon them, he used them as diaphoretics. That the sick are somewhat relieved by ^{them} cannot be disputed, but the benefit is not so great as that derived from purgatives; which are more

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easy and effectual in their operation. Besides
the sickness produced by an emetic is often
very distressing, and it proves most benefi-
cial when it proves purgative; and accord-
ingly they have been used in small doses with
a view to their purgative effects. The ceru-
= ted glass of antimony ^{and} James's Powder have been
highly recommended: but Ipecac. ^{and} Tartaric
of antimony have been found equally useful.
Doctor Barton has found Ipecac. combined
with opium and creta to be singularly use-
= ful in that kind of dysentery accompanied
with bloody stools.

But emetics as emetics are
only proper when nature shows a tenden-
= cy to relieve herself by the stomach.

Blistering. After the remedies already
enumerated have failed, blisters to the abdo-
= men have an excellent effect in transla-
= ting excitement to the skin. They give imme-
= diate relief to the gripings, and diminish the
frequency of the stools.

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Opiales. There is no part of the practice concerning
which authors are more divided than in the
use of opiates in the dysentery. This early ex-
hibition has I believe met the disapprobation
of every experienced practitioner. Hippocra-
tes mentions the evil consequences resulting
from stopping a flux too soon in this disorder.

"Intermptive suppressa intestinum diffi-
cultas abcessum. in costis aut in visceribus aut
articulis inducit" Galen also mentions vomiting
of blood, Epilepsy, Dropsy, and a number of other
maladies.

Sydenham placed his principal re-
=liance upon them; while others of great au-
=thority condemn them, though not altogether.
It is almost universally agreed that they
may be used after the bowels have been thorough-
=ly cleansed. They are now to be given in
large doses during the ~~evening~~ night, and small
during the day. Diet. This should con-
=sist of mucilaginous vegetables, as Barley
gruel, Sago, Panada, puddings, and light broths.

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The drinks should also be of a mucilaginous nature, as Rice water, barley water, decoction of hartshorn, and decoction made of starch and gum arabic.

What has hitherto been said of the cure is principally applicable to the inflammatory stage of this disease. But it sometimes occurs in a Typhoid or Typhus form, and is to be treated in the same manner as those states of fever are treated -

Having now, Gentlemen, finished what my feeble abilities, and the short time allotted to me, would permit me, to observe on the subject of dysentery, Allow me to tender you my warmest wishes for your future happiness and welfare, and for the prosperity of the institution over which you Preside.

